



ANNOUNCEMENT & CALL FOR PAPERS DEADLINE JAN.17.03

An Invitation

You are invited to HARMST 2003, the fifth biennial workshop on high aspect ratio micro-structure technology. Workshop dates are June 15-17, 2003. The purpose of the HARMST workshop is to share information on all aspects of high aspect ratio technology including design, modeling, fabrication, test, and application. This workshop has established itself as the premier forum for reporting progress on high aspect ratio micro (HARM) technology.

The HARMST 2003 workshop continues a series of international workshops that began in 1995 and rotates between Europe, the United States, and Asia. The first workshops were focused on LIGA technology, and LIGA remains an important element of the HARMST 2003 Workshop. However, other HARM technologies will also be covered comprehensively.

There will be oral and poster presentations during the two day gathering, as well as social events.

Call for Papers

Papers are invited for submission in the following topical areas:

Lithography (including X-ray, thick UV, ebeam, stereolithography, and all others relevant to HARM technology)

- Process and process models
- Masks and mask comparisons
- Resists and resist performance
- Chemical development methods and optimization
- Design rules and geometric limitations
- Novel techniques and approaches including three-dimensional structures

Precision Engineering, Particle Beam or Laser Beam Structuring

- Processes and results
- Electroforming**
- Materials and process conditions
- Bath lifetimes and reliability
- Infrastructure and tools

Replication

- Ceramics, polymers, and metals
- Tool wear and lifetimes
- Process and process implementation

Design and Applications

- Prototypes and demonstrations
- Requirements, repeatability, yield
- Assembly and packaging

Metrology and Standards

- Techniques and results

Testing

- Material properties and process/structure/property relationships
- Fatigue, fracture, failure
- Corrosion and environmental response
- Dynamic response
- Thermal, electrical properties

Other Relevant Topics and New Concepts

Submission Guide

Please submit a two-page abstract electronically to jmhruby@sandia.gov no later than January 17, 2003. The abstract must be in either a Microsoft Word or pdf file with an 8.5 x 11 inch paper format using one-inch margins. All figures must be included in the two pages. For specific format information and a sample abstract, please see the website www.harmst2003.org. Along with your abstract submission, kindly indicate whether you have a preference for an oral or poster presentation. The technical committee will make the final recommendation concerning the type of presentation selected. All accepted abstracts, both oral and poster, will be published in a Book of Abstracts that will be available at the Workshop and included in the registration fee. Additionally, final manuscripts for all accepted authors will be collected at the Workshop to submit for peer review for publication in the *Microsystems Technologies Journal* by Springer Publishing Company.

The language of the workshop and publication is English.

Exhibitors/Sponsors

Exhibitors and sponsors are also invited. The HARMST2003 Workshop location will include an exhibit area. This exhibit area will provide companies with an opportunity to display their products and services, as well as become a program sponsor. Sponsorship without exhibition is also possible. If you are interested in an exhibit or sponsorship opportunity, please contact jmhruby@sandia.gov.

Location

The HARMST2003 Workshop will be held at the Monterey Plaza Hotel & Spa on Cannery Row in Monterey, California, USA. This beautiful hotel and conference facility is located directly on the Monterey Bay along the historic Cannery Row. The City of Monterey is located between Los Angeles and San Francisco and is a place of spectacular beauty along the California coastline.

Program

Following the tradition of the other HARMST Workshops, the 2003 meeting will include tours of local facilities of interest on Saturday, June 14. Tours will include Sandia National Laboratories and AXSUN Technologies, both located in Livermore, California. Workshop registration and poster preparation will occur on Sunday afternoon, and the Workshop will officially open on Sunday evening, June 15 with a reception and poster viewing. Monday and Tuesday will include invited presentations along with oral and poster presentations by contributing authors. Monday evening will be a Workshop dinner at the Monterey Bay Aquarium that currently is hosting a special exhibit entitled *Jellies, Living Art*. Details regarding transportation, hotel reservation, conference registration fee, technical committee members, and organizing committee members will be available on the web page.

Important Dates

Jan. 17th: *Deadline Abstract Submission*

March 1st: *Author's Notification*

June 15th: *Manuscript submission*

The HARMST Committee looks forward to your participation in this exciting interchange of results and ideas.

*Please stay informed
of the latest
information on the
workshop by
visiting the web page
www.harmst2003.org*